Rajagopalan Srinivasan

List of Publications by Year
in descending order

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214	4,565	81743	143772
papers	citations	39 h-index	57 g-index

224	224	224	2737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Agent-based supply chain managementâ€”1: framework. Computers and Chemical Engineering, 2002, 26, 1755-1769.	2.0	182
2	Data-Driven Soft Sensor Approach for Quality Prediction in a Refining Process. IEEE Transactions on Industrial Informatics, 2010, 6, 11-17.	7.2	165
3	A new continuous-time formulation for scheduling crude oil operations. Chemical Engineering Science, 2004, 59, 1325-1341.	1.9	120
4	Agent-based supply chain managementâ€”2: a refinery application. Computers and Chemical Engineering, 2002, 26, 1771-1781.	2.0	111
5	Novel solution approach for optimizing crude oil operations. AICHE Journal, 2004, 50, 1177-1197.	1.8	111
6	Online monitoring of multi-phase batch processes using phase-based multivariate statistical process control. Computers and Chemical Engineering, 2008, 32, 230-243.	2.0	94
7	A statistical approach for evaluating inherent benign-ness of chemical process routes in early design stages. Chemical Engineering Research and Design, 2008, 86, 163-174.	2.7	93
8	Optimal variable selection for effective statistical process monitoring. Computers and Chemical Engineering, 2014, 60, 260-276.	2.0	90
9	Sustainability trends in the process industries: A text mining-based analysis. Computers in Industry, 2014, 65, 393-400.	5.7	89
10	Improving the robustness and efficiency of crude scheduling algorithms. AICHE Journal, 2007, 53, 2659-2680.	1.8	78
11	Expert System for the Design of Inherently Safer Processes. 1. Route Selection Stage. Industrial & Engineering Chemistry Research, 2002, 41, 6698-6710.	1.8	77
12	Dynamic Principal Component Analysis Based Methodology for Clustering Process States in Agile Chemical Plants. Industrial & Engineering Chemistry Research, 2004, 43, 2123-2139.	1.8	75
13	Decision support for integrated refinery supply chains. Computers and Chemical Engineering, 2008, 32, 2767-2786.	2.0	70
14	In situ particle size estimation for crystallization processes by multivariate image analysis. Chemical Engineering Science, 2009, 64, 9-19.	1.9	64
15	An adjoined multi-model approach for monitoring batch and transient operations. Computers and Chemical Engineering, 2009, 33, 887-902.	2.0	64
16	Expert System for the Design of Inherently Safer Processes. 2. Flowsheet Development Stage. Industrial & Engineering Chemistry Research, 2002, 41, 6711-6722.	1.8	62
17	A model-based rescheduling framework for managing abnormal supply chain events. Computers and Chemical Engineering, 2007, 31, 496-518.	2.0	62
18	Developments in inherent safety: A review of the progress during 2001â€“2011 and opportunities ahead. Chemical Engineering Research and Design, 2012, 90, 389-403.	2.7	61

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19	Multi-linear model-based fault detection during process transitions. Chemical Engineering Science, 2003, 58, 1649-1670.	1.9	60
20	Automating HAZOP analysis of batch chemical plants. Computers and Chemical Engineering, 1998, 22, 1345-1355.	2.0	58
21	Selection of inherently safer process routes: a case study. Chemical Engineering and Processing: Process Intensification, 2004, 43, 641-647.	1.8	58
22	Evaluation of decision fusion strategies for effective collaboration among heterogeneous fault diagnostic methods. Computers and Chemical Engineering, 2011, 35, 342-355.	2.0	58
23	Automating operating procedure synthesis for batch processes. Computers and Chemical Engineering, 1998, 22, 1673-1685.	2.0	56
24	Multi-agent based collaborative fault detection and identification in chemical processes. Engineering Applications of Artificial Intelligence, 2010, 23, 934-949.	4.3	56
25	Reconstruction and analysis of a genome-scale metabolic model for Scheffersomyces stipitis. Microbial Cell Factories, 2012, 11, 27.	1.9	53
26	Application of the TRIZ creativity enhancement approach to design of inherently safer chemical processes. Chemical Engineering and Processing: Process Intensification, 2006, 45, 507-514.	1.8	52
27	Multi-model based process condition monitoring of offshore oil and gas production process. Chemical Engineering Research and Design, 2010, 88, 572-591.	2.7	50
28	Monitoring transitions in chemical plants using enhanced trend analysis. Computers and Chemical Engineering, 2003, 27, 1455-1472.	2.0	48
29	Heuristic rescheduling of crude oil operations to manage abnormal supply chain events. AICHE Journal, 2007, 53, 397-422.	1.8	48
30	Supply chain risk identification using a HAZOPâ€based approach. AICHE Journal, 2009, 55, 1447-1463.	1.8	48
31	Eye gaze movement studies of control room operators: A novel approach to improve process safety. Computers and Chemical Engineering, 2016, 85, 43-57.	2.0	48
32	Online fault diagnosis and state identification during process transitions using dynamic locus analysis. Chemical Engineering Science, 2006, 61, 6109-6132.	1.9	47
33	Decision support for integrated refinery supply chains. Computers and Chemical Engineering, 2008, 32, 2787-2800.	2.0	47
34	Quantifying situation awareness of control room operators using eye-gaze behavior. Computers and Chemical Engineering, 2017, 106, 191-201.	2.0	46
35	Phase-based supervisory control for fermentation process development. Journal of Process Control, 2003, 13, 367-382.	1.7	45
36	Systematic Waste Minimization in Chemical Processes. 1. Methodology. Industrial & Engineering Chemistry Research, 2002, 41, 196-207.	1.8	44

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37	Recent developments towards enhancing process safety: Inherent safety and cognitive engineering. Computers and Chemical Engineering, 2019, 128, 364-383.	2.0	42
38	Recipe determination and scheduling of gasoline blending operations. AICHE Journal, 2010, 56, 441-465.	1.8	41
39	Sequential Methodology for Scheduling of Heat-Integrated Batch Plants. Industrial & Engineering Chemistry Research, 2009, 48, 8551-8565.	1.8	41
40	Sequential methodology for integrated optimization of energy and water use during batch process scheduling. Computers and Chemical Engineering, 2011, 35, 1575-1597.	2.0	41
41	Pupillometry Based Real-Time Monitoring of Operatorâ€™s Cognitive Workload To Prevent Human Error during Abnormal Situations. Industrial & Engineering Chemistry Research, 2016, 55, 3372-3382.	1.8	41
42	Automating HAZOP analysis of batch chemical plants. Computers and Chemical Engineering, 1998, 22, 1357-1370.	2.0	40
43	Critical evaluation of image processing approaches for real-time crystal size measurements. Computers and Chemical Engineering, 2009, 33, 1022-1035.	2.0	39
44	A framework for managing transitions in chemical plants. Computers and Chemical Engineering, 2005, 29, 305-322.	2.0	38
45	Analysis of the heat shock response in mouse liver reveals transcriptional dependence on the nuclear receptor peroxisome proliferator-activated receptor Î± (PPARÎ±). BMC Genomics, 2010, 11, 16.	1.2	38
46	Critical evaluation of paradigms for modelling integrated supply chains. Computers and Chemical Engineering, 2009, 33, 1711-1726.	2.0	35
47	Decision Support for Green Supply Chain Operations by Integrating Dynamic Simulation and LCA Indicators: Diaper Case Study. Environmental Science & Technology, 2011, 45, 10178-10185.	4.6	35
48	Study of water reuse opportunities in a large-scale milk processing plant through process integration. Chemical Engineering Research and Design, 2017, 121, 81-91.	2.7	34
49	Petri net-Digraph models for automating HAZOP analysis of batch process plants. Computers and Chemical Engineering, 1996, 20, S719-S725.	2.0	33
50	Text mining of accident reports using semi-supervised keyword extraction and topic modeling. Chemical Engineering Research and Design, 2021, 155, 455-465.	2.7	33
51	Supply chain redesign through optimal asset management and capital budgeting. Computers and Chemical Engineering, 2008, 32, 3153-3169.	2.0	32
52	Detection of phase shifts in batch fermentation via statistical analysis of the online measurements: A case study with rifamycin B fermentation. Journal of Biotechnology, 2007, 132, 156-166.	1.9	31
53	Dynamic assessment of control room operator's cognitive workload using Electroencephalography (EEG). Computers and Chemical Engineering, 2020, 141, 106726.	2.0	31
54	Quantifying the effectiveness of an alarm management system through human factors studies. Computers and Chemical Engineering, 2014, 67, 1-12.	2.0	30

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55	Fault detection during process transitions: a model-based approach. Chemical Engineering Science, 2003, 58, 309-325.	1.9	29
56	Principal components analysis based methodology to identify differentially expressed genes in time-course microarray data. BMC Bioinformatics, 2008, 9, 267.	1.2	28
57	Immune-System-Inspired Approach to Process Monitoring and Fault Diagnosis. Industrial & Engineering Chemistry Research, 2011, 50, 1637-1651.	1.8	28
58	An ontology for distributed process supervision of large-scale chemical plants. Computers and Chemical Engineering, 2012, 46, 124-140.	2.0	28
59	The intelligent alarm management system. IEEE Software, 2003, 20, 66-71.	2.1	27
60	Implementation of multi agents based system for process supervision in large-scale chemical plants. Computers and Chemical Engineering, 2014, 60, 182-196.	2.0	27
61	Systematic Waste Minimization in Chemical Processes. 2. Intelligent Decision Support System. Industrial & Engineering Chemistry Research, 2002, 41, 208-219.	1.8	26
62	Designing sustainable alternatives for batch operations using an intelligent simulationâ€“optimization framework. Chemical Engineering Research and Design, 2008, 86, 809-822.	2.7	26
63	Efficient bulk maritime logistics for the supply and delivery of multiple chemicals. Computers and Chemical Engineering, 2010, 34, 2118-2128.	2.0	26
64	Large-Scale Refinery Crude Oil Scheduling by Integrating Graph Representation and Genetic Algorithm. Industrial & Engineering Chemistry Research, 2012, 51, 5256-5272.	1.8	26
65	Automating operating procedure synthesis for batch processes. Computers and Chemical Engineering, 1998, 22, 1687-1698.	2.0	25
66	Off-line Temporal Signal Comparison Using Singular Points Augmented Time Warping. Industrial & Engineering Chemistry Research, 2005, 44, 4697-4716.	1.8	25
67	Fleet sizing in chemical supply chains using agent-based simulation. Computers and Chemical Engineering, 2016, 84, 180-198.	2.0	25
68	Electroencephalography (EEG) based cognitive measures for evaluating the effectiveness of operator training. Chemical Engineering Research and Design, 2021, 150, 51-67.	2.7	25
69	An online decision support framework for managing abnormal supply chain events. Computer Aided Chemical Engineering, 2005, , 985-990.	0.3	24
70	Optimal Contract Selection for the Global Supply and Distribution of Raw Materials. Industrial & Engineering Chemistry Research, 2007, 46, 6522-6539.	1.8	24
71	Performance analysis of a multi-plant specialty chemical manufacturing enterprise using an agent-based model. Computers and Chemical Engineering, 2010, 34, 793-801.	2.0	24
72	A combined heuristic and indicator-based methodology for design of sustainable chemical process plants. Computers and Chemical Engineering, 2011, 35, 1343-1358.	2.0	24

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73	Using the OPC Standard for Real-Time Process Monitoring and Control. IEEE Software, 2005, 22, 54-59.	2.1	23
74	Multivariate Temporal Data Analysis Using Self-Organizing Maps. 2. Monitoring and Diagnosis of Multistate Operations. Industrial & Engineering Chemistry Research, 2008, 47, 7758-7771.	1.8	23
75	A material-centric methodology for developing inherently safer environmentally benign processes. Computers and Chemical Engineering, 2002, 26, 757-774.	2.0	21
76	Neural network systems for multi-dimensional temporal pattern classification. Computers and Chemical Engineering, 2005, 29, 965-981.	2.0	21
77	Online Temporal Signal Comparison Using Singular Points Augmented Time Warping. Industrial & Engineering Chemistry Research, 2007, 46, 4531-4548.	1.8	21
78	Multivariate Temporal Data Analysis Using Self-Organizing Maps. 1. Training Methodology for Effective Visualization of Multistate Operations. Industrial & Engineering Chemistry Research, 2008, 47, 7744-7757.	1.8	21
79	Dynamic Simulation and Decision Support for Multisite Specialty Chemicals Supply Chain. Industrial & Engineering Chemistry Research, 2010, 49, 9917-9931.	1.8	21
80	Towards predicting human error: Eye gaze analysis for identification of cognitive steps performed by control room operators. Journal of Loss Prevention in the Process Industries, 2016, 42, 35-46.	1.7	21
81	Toward Preventing Accidents in Process Industries by Inferring the Cognitive State of Control Room Operators through Eye Tracking. ACS Sustainable Chemistry and Engineering, 2018, 6, 2517-2528.	3.2	21
82	A knowledge-based simulation-optimization framework and system for sustainable process operations. Computers and Chemical Engineering, 2011, 35, 92-105.	2.0	19
83	Multi-perspective models for process hazards analysis of large scale chemical processes. Computers and Chemical Engineering, 1998, 22, S961-S964.	2.0	18
84	Green Supply Chain Design and Operation by Integrating LCA and Dynamic Simulation. Computer Aided Chemical Engineering, 2010, , 109-114.	0.3	18
85	Context-based recognition of process states using neural networks. Chemical Engineering Science, 2005, 60, 935-949.	1.9	17
86	State-Specific Key Variables for Monitoring Multi-State Processes. Chemical Engineering Research and Design, 2007, 85, 1630-1644.	2.7	17
87	Integrated Decision Support System for Waste Minimization Analysis in Chemical Processes. Environmental Science & Technology, 2002, 36, 1640-1648.	4.6	16
88	Systematic Waste Minimization in Chemical Processes. 3. Batch Operations. Industrial & Engineering Chemistry Research, 2006, 45, 4693-4705.	1.8	16
89	Artificial intelligence methodologies for agile refining: an overview. Knowledge and Information Systems, 2007, 12, 129-145.	2.1	16
90	Multi-model based real-time final product quality control strategy for batch processes. Computers and Chemical Engineering, 2009, 33, 992-1003.	2.0	16

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91	From PSE to PSE2â€"Decision support for resilient enterprises. Computers and Chemical Engineering, 2009, 33, 1939-1949.	2.0	16
92	Optimization of image processing parameters for large sets of in-process video microscopy images acquired from batch crystallization processes: Integration of uniform design and simplex search. Chemometrics and Intelligent Laboratory Systems, 2011, 107, 290-302.	1.8	16
93	Simulator based performance metrics to estimate reliability of control room operators. Journal of Loss Prevention in the Process Industries, 2018, 56, 524-530.	1.7	16
94	How to Handle Disruptions in Supply Chains â€“ An Integrated Framework and a Review of Literature. SSRN Electronic Journal, 0, , .	0.4	15
95	A novel application of genetic algorithm for synthesizing optimal water reuse network with multiple objectives. Chemical Engineering Research and Design, 2015, 100, 39-56.	2.7	14
96	Agent-oriented simulation framework for handling disruptions in chemical supply chains. Computers and Chemical Engineering, 2019, 122, 306-325.	2.0	14
97	Metrics for objectively assessing operator training using eye gaze patterns. Chemical Engineering Research and Design, 2021, 156, 508-520.	2.7	14
98	Safety verification using a hybrid knowledge-based mathematical programming framework. AICHE Journal, 1998, 44, 361-371.	1.8	13
99	An efficient graph theory based method to identify every minimal reaction set in a metabolic network. BMC Systems Biology, 2014, 8, 28.	3.0	13
100	An explainable artificial intelligence based approach for interpretation of fault classification results from deep neural networks. Chemical Engineering Science, 2022, 250, 117373.	1.9	13
101	Supply Chain Redesignâ€"Multimodal Optimization Using a Hybrid Evolutionary Algorithm. Industrial & Engineering Chemistry Research, 2009, 48, 11094-11107.	1.8	12
102	Benchmarking numerical and agent-based models of an oil refinery supply chain. Computer Aided Chemical Engineering, 2008, , 623-628.	0.3	11
103	Hierarchically Distributed Fault Detection and Identification through Dempsterâ€"Shafer Evidence Fusion. Industrial & Engineering Chemistry Research, 2011, 50, 9249-9269.	1.8	11
104	Integrating Economic, Environmental and Social Indicators for Sustainable Supply Chains. Computer Aided Chemical Engineering, 2011, , 1220-1224.	0.3	11
105	A hybrid CPU-Graphics Processing Unit (GPU) approach for computationally efficient simulation-optimization. Computers and Chemical Engineering, 2016, 87, 49-62.	2.0	11
106	Negotiation-Based Approach for Order Acceptance in a Multiplant Specialty Chemical Manufacturing Enterprise. Industrial & Engineering Chemistry Research, 2011, 50, 5086-5098.	1.8	10
107	Hybrid Model-Based Framework for Alarm Anticipation. Industrial & Engineering Chemistry Research, 2014, 53, 5182-5193.	1.8	9
108	Review of Virtual Reality (VR) Applications To Enhance Chemical Safety: From Students to Plant Operators. Journal of Chemical Health and Safety, 2022, 29, 246-262.	1.1	9

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109	A novel CDU model for refinery planning. Asia-Pacific Journal of Chemical Engineering, 2007, 2, 282-293.	0.8	8
110	NIFTI: An evolutionary approach for finding number of clusters in microarray data. BMC Bioinformatics, 2009, 10, 40.	1.2	8
111	Novel genetic algorithm for short-term scheduling of sequence dependent changeovers in multiproduct polymer plants. Computers and Chemical Engineering, 2011, 35, 2945-2959.	2.0	8
112	Evaluating Control Room Operator Training Outcomes Through Eye Gaze Augmented Multi-Scale Data. Computer Aided Chemical Engineering, 2021, 50, 1307-1312.	0.3	8
113	Practical challenges in developing data-driven soft sensors for quality prediction. Computer Aided Chemical Engineering, 2008, , 961-966.	0.3	7
114	Enhancement of Energy Efficiency at an Indian Milk Processing Plant Using Exergy Analysis. Green Energy and Technology, 2018, , 425-450.	0.4	7
115	Towards Obviating Human Errors in Real-time through Eye Tracking. Computer Aided Chemical Engineering, 2018, , 1189-1194.	0.3	7
116	Real-time imaging and product quality characterization for control of particulate processes. Computer Aided Chemical Engineering, 2006, , 775-780.	0.3	6
117	Selection of Third-Party Service Contracts for Chemical Logistics. Industrial & Engineering Chemistry Research, 2008, 47, 8301-8316.	1.8	6
118	Supply chain risk management through HAZOP and dynamic simulation. Computer Aided Chemical Engineering, 2008, , 37-42.	0.3	6
119	Abnormal Situation Management in a Refinery Supply Chain Supported by an Agent-Based Simulation Model. Computer Aided Chemical Engineering, 2009, , 2097-2102.	0.3	6
120	Quantitative identification of teratoma tissues formed by human embryonic stem cells with TeratomEye. Biotechnology Letters, 2009, 31, 653-658.	1.1	6
121	Agent-based modeling to support operations management in a multi-plant enterprise. , 2009, , .		6
122	Agent based model for performance analysis of a global chemical supply chain during normal and abnormal situations. Computer Aided Chemical Engineering, 2009, , 979-984.	0.3	6
123	An artificial immune system for adaptive fault detection, diagnosis and recovery. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 22-31.	0.7	6
124	A simple strategy to maximize water-reuse in multistage, multiproduct batch processes. Chemical Engineering Research and Design, 2021, 168, 327-339.	2.7	6
125	Agent-based Refinery Supply Chain Management. Computer Aided Chemical Engineering, 2002, , 895-900.	0.3	5
126	Data-driven Soft Sensor Approach For Quality Prediction in a Refinery Process. , 2006, , .		5

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127	State-specific Key Variables for Monitoring Multi-state Processes. Chemical Engineering Research and Design, 2007, 85, 1630-1644.	2.7	5
128	Agent-based simulation of a specialty chemicals supply chain. , 2008, , .		5
129	Eliminating the Effect of Multivariate Outliers in PLS-Based Models for Inferring Process Quality. Computer Aided Chemical Engineering, 2009, 26, 755-760.	0.3	5
130	Robustness Measures for Operation Schedules Subject to Disruptions. Industrial & Engineering Chemistry Research, 2009, 48, 9204-9214.	1.8	5
131	Mitigating Supply Disruption for a Global Chemical Supply Chain-Application of Agent-based Modeling. Computer Aided Chemical Engineering, 2012, 31, 1070-1074.	0.3	5
132	Optimal Procurement of Liquefied Natural Gas Cargos from Long-Term Contracts and Spot Market through Mathematical Programming. Industrial & Engineering Chemistry Research, 2021, 60, 3658-3669.	1.8	5
133	Agent-based decision support for failure-prone networked infrastructures. International Journal of Critical Infrastructures, 2009, 5, 323.	0.1	4
134	An intelligent system for green process design. International Journal of Environment and Sustainable Development, 2009, 8, 1.	0.2	4
135	Graph theory augmented math programming approach to identify minimal reaction sets in metabolic networks. Computers and Chemical Engineering, 2011, 35, 2366-2377.	2.0	4
136	Cognitive Behavior Based Framework for Operator Learning: Knowledge and Capability Assessment through Eye Tracking. Computer Aided Chemical Engineering, 2017, 40, 2977-2982.	0.3	4
137	Process Fault Detection in Heat Recovery Steam Generator using an Artificial Neural Network Simplification of a Dynamic First Principles Model. Computer Aided Chemical Engineering, 2018, , 2065-2070.	0.3	4
138	A practical approach to improve alarm system performance: Application to power plant. Chinese Journal of Chemical Engineering, 2019, 27, 1094-1102.	1.7	4
139	A Multi-Agent Approach to Supply Chain Management in the Chemical Industry. Studies in Computational Intelligence, 2006, , 419-450.	0.7	4
140	Monitoring fouling in heat exchangers under temperature control based on excess thermal and hydraulic loads. Chemical Engineering Research and Design, 2022, 181, 41-54.	2.7	4
141	Short-term scheduling of refinery operations from unloading crudes to distillation. Computer Aided Chemical Engineering, 2003, 15, 304-309.	0.3	3
142	Enhancing process control education using a web-based interactive multimedia environment. Computer Aided Chemical Engineering, 2003, , 1478-1483.	0.3	3
143	AN ADJOINED MULTI-DPCA APPROACH FOR ONLINE MONITORING OF FED-BATCH PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 279-284.	0.4	3
144	An integrated model for planning in global chemical supply chains. Computer Aided Chemical Engineering, 2006, , 2189-2194.	0.3	3

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145	Multi-objective scheduling for environmentally-friendly batch operations. Computer Aided Chemical Engineering, 2008, 25, 847-852.	0.3	3
146	Design of Sustainable Batch Processes Through Simultaneous Minimization of Process Waste, Cleaning Agent and Energy. Computer Aided Chemical Engineering, 2009, , 801-806.	0.3	3
147	Decentralized vs. centralized management of abnormal situations in a multi-plant enterprise using an agent-based approach. Computer Aided Chemical Engineering, 2010, , 1219-1224.	0.3	3
148	Integrating Graph-based Representation and Genetic Algorithm for Large-Scale Optimization: Refinery Crude Oil Scheduling. Computer Aided Chemical Engineering, 2011, 29, 567-571.	0.3	3
149	Agent-Based Simulation Framework for Public Bus Fleet Electrification Investment Analysis. Computer Aided Chemical Engineering, 2012, , 1226-1230.	0.3	3
150	Managing supply chain disruptions: an integrated agent-oriented approach. Computer Aided Chemical Engineering, 2017, , 595-600.	0.3	3
151	Proactive Alarms Monitoring using Predictive Technologies. Computer Aided Chemical Engineering, 2012, 31, 1537-1541.	0.3	3
152	Data Mining for the Chemical Process Industry. , 2009, , 458-464.		3
153	Synthesis of an Optimal Schedule and Water Network for a Multipurpose Multiproduct Textile Industry through a Sequential MILP-NLP Technique. Industrial & Engineering Chemistry Research, 0, , .	1.8	3
154	A decision support database for inherently safer design. Computer Aided Chemical Engineering, 2003, , 287-292.	0.3	2
155	On-Line Process Monitoring and Fault Isolation Using PCA. , 0, , .		2
156	Business decision making in the chemical industry: PSE opportunities. Computer Aided Chemical Engineering, 2006, 21, 107-117.	0.3	2
157	Supporting waste minimization studies by integrating expert system with process simulators. Computer Aided Chemical Engineering, 2006, , 1003-1007.	0.3	2
158	Nuances of benchmarking agent-based and equation-based models of an oil refinery supply chain. , 2008, , .		2
159	Dynamic modeling of a multi-site specialty chemical manufacturing supply chain. , 2009, , .		2
160	Collaborative Multi - Agent based Process Monitoring System for Offshore Oil and Gas Production. Computer Aided Chemical Engineering, 2009, 27, 1227-1232.	0.3	2
161	Multi-Period Continuous-Time Formulation for Integrated Scheduling, Blending, and Distribution of Refinery Products. Computer Aided Chemical Engineering, 2009, 27, 1563-1568.	0.3	2
162	Decision fusion in distributed multi agent process supervisory system. , 2010, , .		2

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163	Lessons Learnt from Alarm Management in a Combined-Cycle Gas Turbine Power Plant. Computer Aided Chemical Engineering, 2017, 40, 2461-2466.	0.3	2
164	Effect of Ambient Conditions on Boil Off Gas Generation in LNG regasification terminals. Computer Aided Chemical Engineering, 2019, 46, 445-450.	0.3	2
165	Electroencephalogram based Biomarkers for Tracking the Cognitive Workload of Operators in Process Industries. Computer Aided Chemical Engineering, 2019, 46, 1393-1398.	0.3	2
166	Editorial: Special issue on data analytics in process safety. Chemical Engineering Research and Design, 2022, 159, 625-626.	2.7	2
167	HMM-based models of control room operator's cognition during process abnormalities. 1. Formalism and model identification. Journal of Loss Prevention in the Process Industries, 2022, 76, 104748.	1.7	2
168	HMM-based models of control room operator's cognition during process abnormalities. 2. Application to operator training. Journal of Loss Prevention in the Process Industries, 2022, 76, 104749.	1.7	2
169	Analysis of Control Room Operatorsâ€™ Competence using Cognitive Engineering Approaches to Improve Process Safety. , 2021, , .		2
170	Human factors in digitalized process operations. Methods in Chemical Process Safety, 2022, , 417-459.	0.5	2
171	Critical Assessment of Control Strategies for Industrial Systems with Inputâ€“Output Constraints. Industrial & Engineering Chemistry Research, 2022, 61, 11056-11070.	1.8	2
172	An intelligent system for identifying waste minimization opportunities in chemical processes. Computer Aided Chemical Engineering, 2000, 8, 829-834.	0.3	1
173	An integrated methodology for developing inherently safer and environmentally benign processes. Computer Aided Chemical Engineering, 2001, 9, 1145-1150.	0.3	1
174	Automatic Rule Generation for Supervision of Fermentation Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 149-154.	0.4	1
175	Design synthesis for simultaneous waste source reduction and recycling analysis in batch processes. Computer Aided Chemical Engineering, 2005, , 1513-1518.	0.3	1
176	Refinery planning under correlated and truncated price and demand uncertainties. Computer Aided Chemical Engineering, 2006, 21, 2123-2128.	0.3	1
177	Transition Classification and Performance Analysis: A Study on Industrial Hydro-cracker. , 2006, , .		1
178	Optimal supply chain redesign using genetic algorithm. Computer Aided Chemical Engineering, 2007, 24, 703-708.	0.3	1
179	A PCA-Based approach for gene target selection to improve industrial strains. Computer Aided Chemical Engineering, 2007, , 1013-1018.	0.3	1
180	Strategy for Validating a Population Balance Model of a Batch Crystallization Process Using Particle Size Distribution from Image-based Sensor. Computer Aided Chemical Engineering, 2009, , 833-837.	0.3	1

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181	Sustainability Analysis of Chemical Processes Plants Using a Hybrid Heuristic and Indicator Model. Computer Aided Chemical Engineering, 2009, , 837-842.	0.3	1
182	Simulation-Optimization for Business Decision Support in a Global Specialty Chemicals Enterprise. Computer Aided Chemical Engineering, 2010, 28, 133-138.	0.3	1
183	Potential for Bio-based Chemicals Production in Singapore's Petrochemical Cluster. Computer Aided Chemical Engineering, 2012, , 885-889.	0.3	1
184	Multi-objective Optimization for Integrated Water Network Synthesis. Computer Aided Chemical Engineering, 2012, , 1432-1436.	0.3	1
185	Structural Similarities and Differences between Smart Grids and Process Industry Supply Chains: India Case Study. Computer Aided Chemical Engineering, 2015, 37, 2387-2392.	0.3	1
186	Special Issue â€“ Inventive Design and Systematic Engineering Creativity. Chemical Engineering Research and Design, 2015, 103, 1-2.	2.7	1
187	Non-intrusive Appliance Load Monitoring for Electrical Energy Systems Simulation and Analysis â€“ A case study in India. Computer Aided Chemical Engineering, 2016, 38, 2061-2066.	0.3	1
188	Integrating Production Control and Scheduling in Multisite Enterprises on the Basis of Real-Time Detection of Divergence. Industrial & Engineering Chemistry Research, 2016, 55, 5681-5695.	1.8	1
189	Simulation and Analysis of Indian Residential Electricity Consumption Using Agent-Based Models. Computer Aided Chemical Engineering, 2018, 43, 205-210.	0.3	1
190	Eye Tracking as a Tool to Enhance Operator Learning in Safety Critical Domains. Computer Aided Chemical Engineering, 2018, 44, 2347-2352.	0.3	1
191	Evaluating the Benefits of LNG Procurement through Spot Market Purchase. Computer Aided Chemical Engineering, 2019, , 1723-1728.	0.3	1
192	A Novel Experimental Strategy for Validating Human Failure Probabilities in Risk Assessment. Computer Aided Chemical Engineering, 2016, , 1983-1988.	0.3	1
193	Integrating Knowledge-Based and Mathematical Programming Approaches for Process Safety Verification. Computers and Chemical Engineering, 1997, 21, S905-S910.	2.0	1
194	Asset Management in and Redesign of Chemical Supply Chains. , 2006, , .		0
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